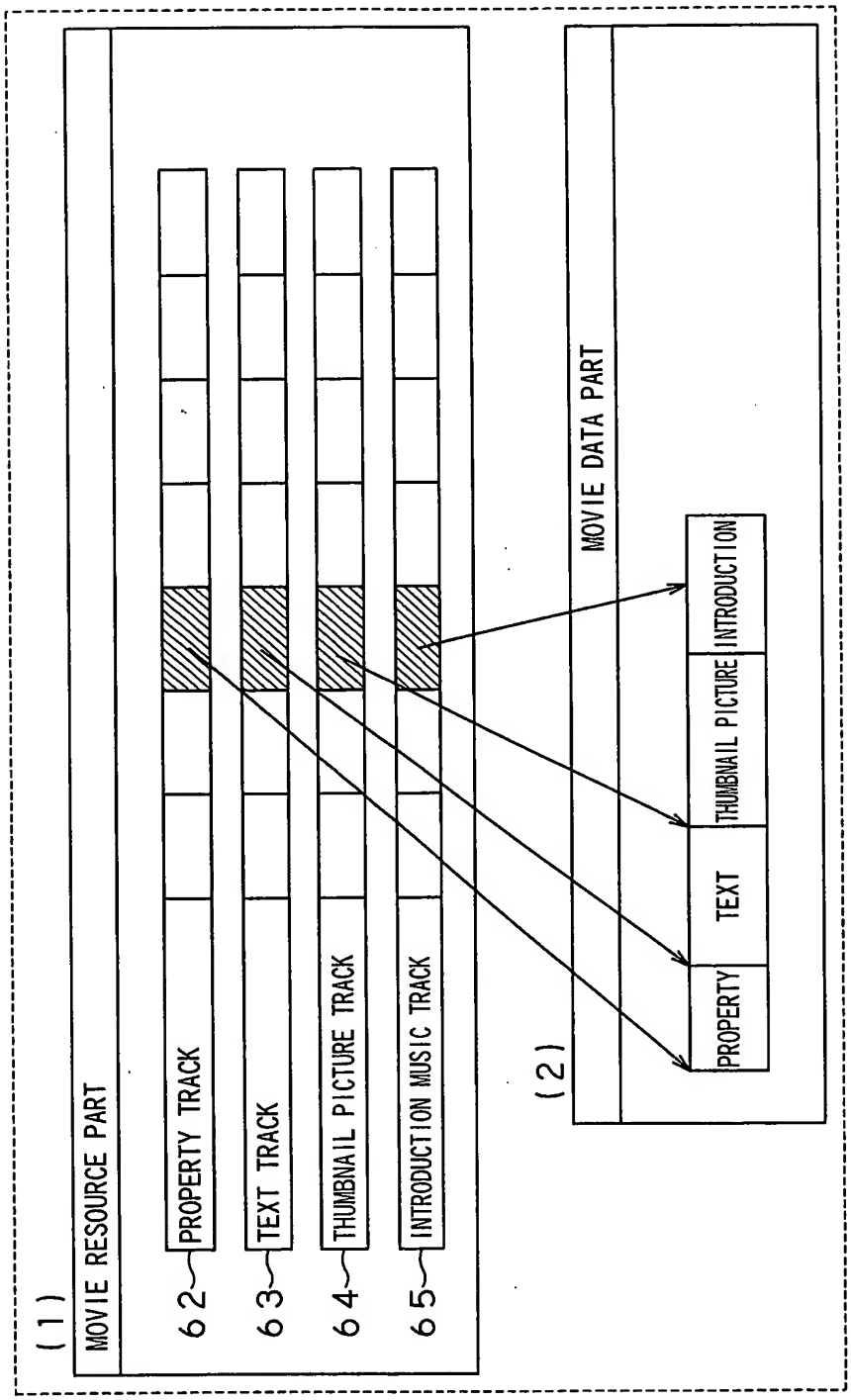
(1)
MOVIE RESOURCE PART
62
PROPERTY TRACK
63
TEXT TRACK
64
THUMBNAIL PICTURE TRACK
65
INTRODUCTION MUSIC TRACK
(2)
MOVIE DATA PART
PROPERTY
TEXT
THUMBNAIL PICTURE
INTRODUCTION

FIG. 1

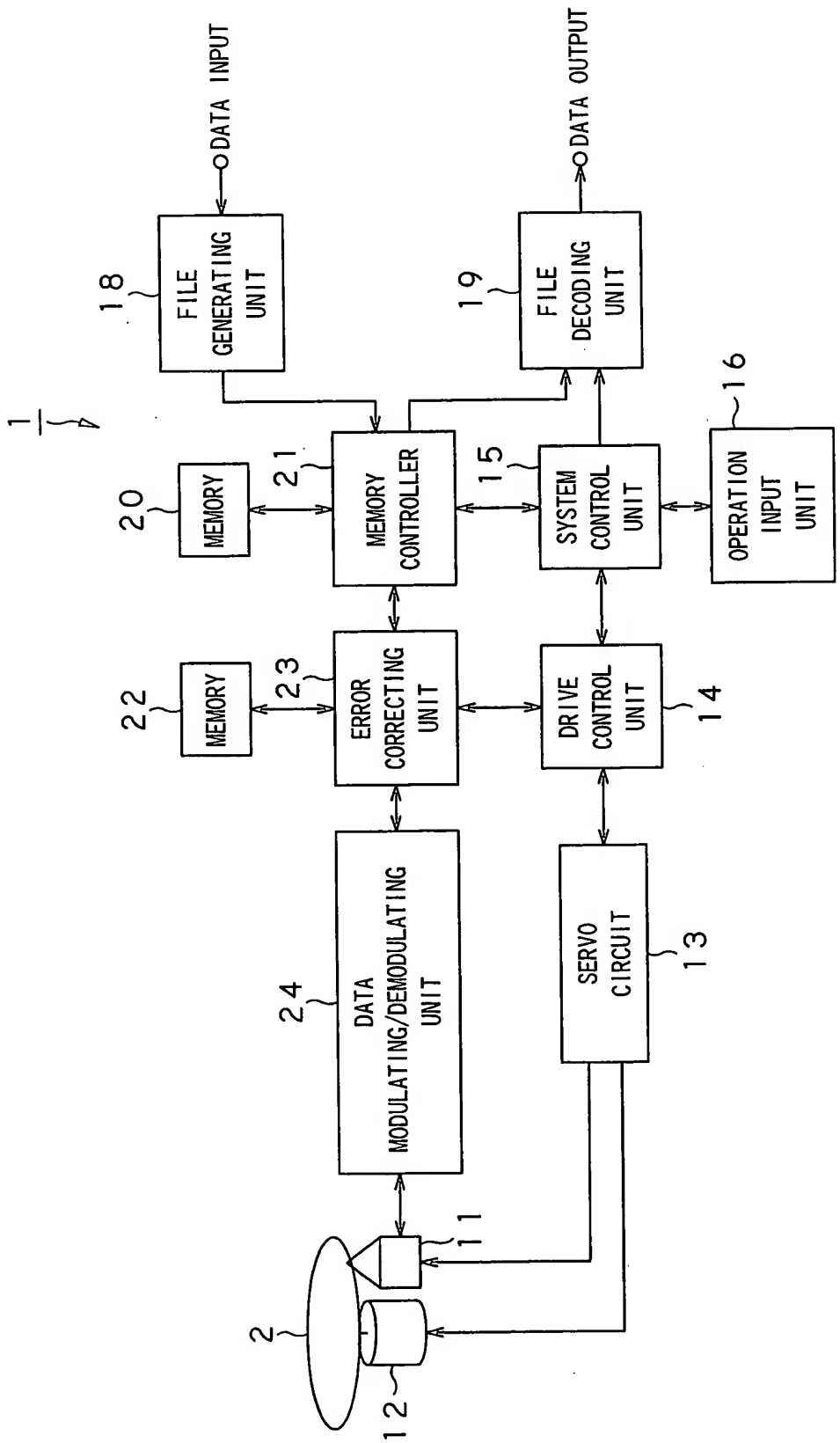
1
DATA INPUT
DATA OUTPUT
18
FILE GENERATING UNIT
19
FILE DECODING UNIT
16
OPERATION INPUT UNIT
20
MEMORY
21
MEMORY CONTROLLER
15
SYSTEM CONTROL UNIT
22
MEMORY
23
ERROR CORRECTING UNIT
DRIVE CONTROL UNIT
14
24
DATA MODULATING/DEMODULATING UNIT
SERVO CIRCUIT
13
11
2
12

FIG. 2

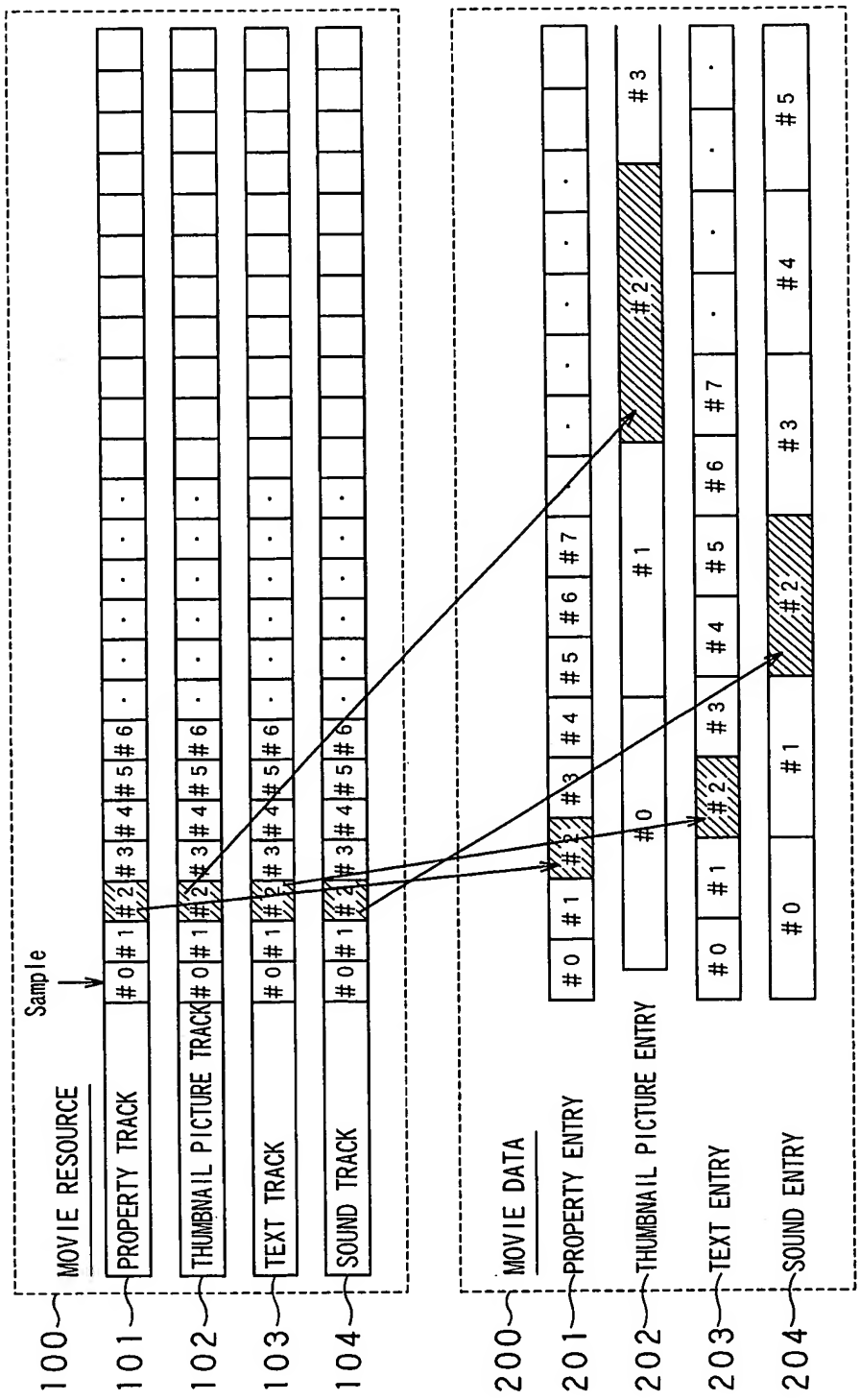
MOVIE RESOURCE
Sample
PROPERTY TRACK
THUMBNAIL PICTURE TRACK
TEXT TRACK
SOUND TRACK
MOVIE DATA
PROPERTY ENTRY
THUMBNAIL PICTURE ENTRY
TEXT ENTRY
SOUND ENTRY
100
101
102
103
104
200
201
202
203
204

FIG.3

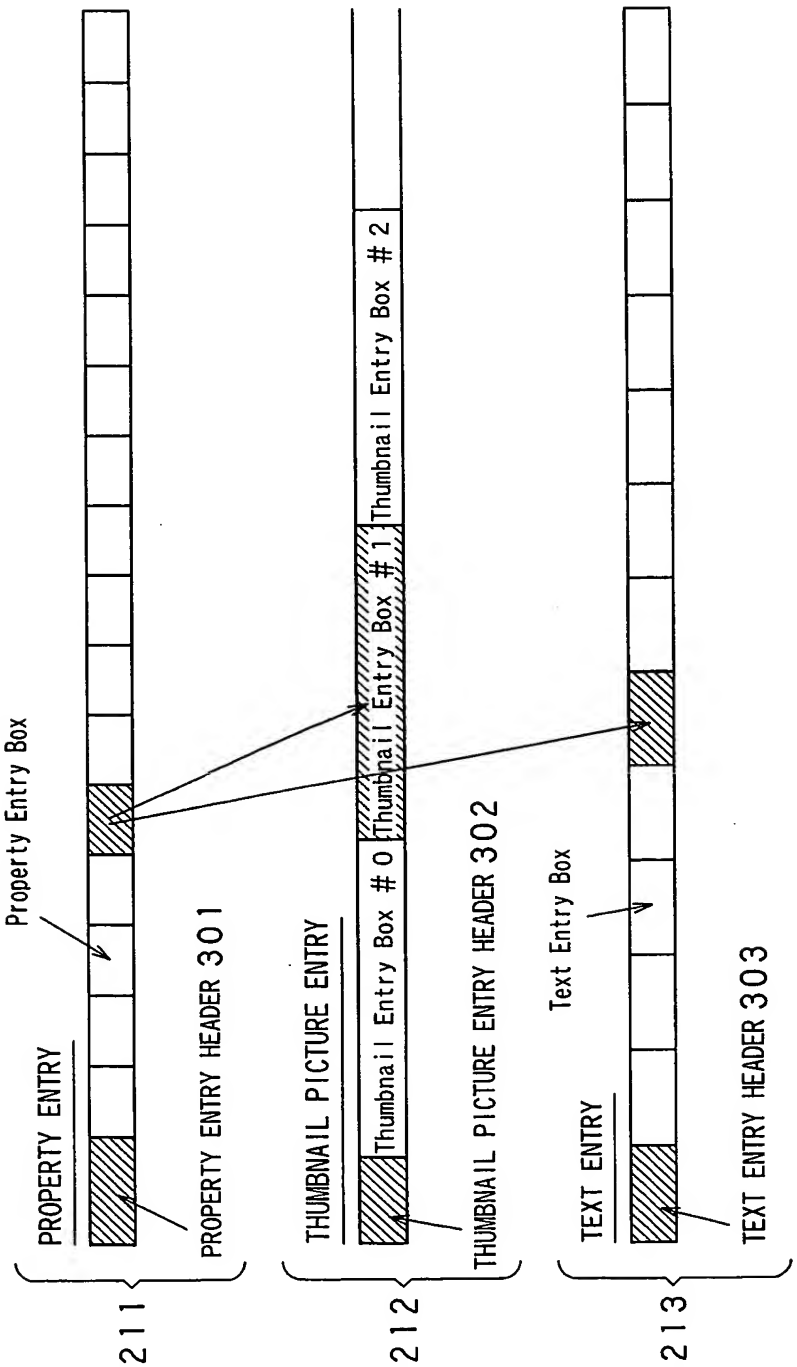
Property Entry Box
PROPERTY ENTRY
PROPERTY ENTRY HEADER 301
211
THUMBNAIL PICTURE ENTRY
Thumbnail Entry Box #0
Thumbnail Entry Box #1
Thumbnail Entry Box #2
THUMBNAIL PICTURE ENTRY HEADER 302
212
Text Entry Box
TEXT ENTRY
TEXT ENTRY HEADER 303
213

FIG.4

START BYTE POSITION	DATA LENGTH	FIELD NAME
0	LP_1	ENTRY #0
LP_1	LP_2	ENTRY #1
LP_1+LP_2	LP_3	ENTRY #2
⋮	⋮	⋮
LP_1+LP_n-1	LP_n	ENTRY #n

FIG.5

START BYTE POSITION	DATA LENGTH	FIELD NAME
0	2	VERSION INFORMATION
2	2	FLAG
4	1	DATA TYPE
5	4	PRODUCTION DATE AND TIME
9	4	EDITING DATE AND TIME
13	4	DURATION
⋮	⋮	⋮
26	4	ENTRY NUMBER
30	1	ENTRY PROPERTY
31	4	FOLDER PROPERTY

FIG.6

ENTRY NUMBER	#0	#1	#2	#3	#4	#5	#6	#7
ENTRY PROPERTY 1 0:FOLDER 1:FILE	0	1	X	0	0	1	1	1
ENTRY PROPERTY 2 0:NORMAL 1:SYSTEM	0	0	1	0	0	0	0	0
ENTRY PROPERTY 3 0:VALID 1:INVALID	0	0	0	0	0	0	1	0
ENTRY PROPERTY 4 0:NOT REFERRING 1:REFERRING	X	0	X	X	X	1	1	0
FOLDER PROPERTY	X	0	X	0	3	3	4	4
REFERRED COUNTER	0	1	0	0	0	0	0	0
REFERRING LIST	—	5	—	—	—	—	—	—

← VALID/INVALID FLAG OF ENTRY

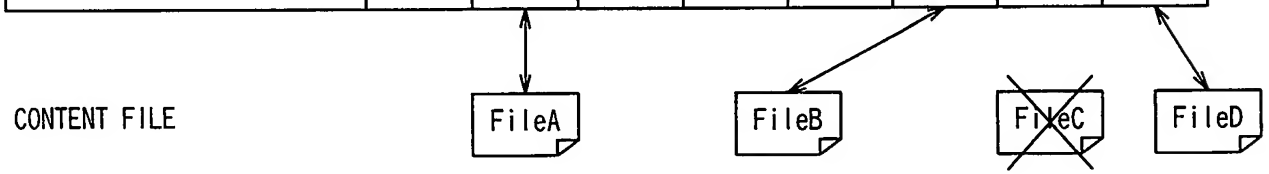

FIG.7

OBLON, SPIVAK, ET AL
DOCKET #: 248138US6
INV: Haruo YOSHIDA, et al.
SHEET 6 OF 13

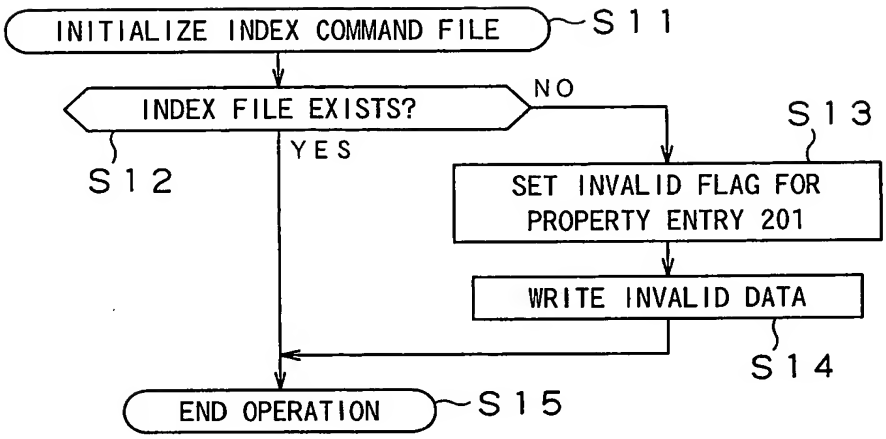
INITIALIZE INDEX COMMAND FILE
S11
INDEX FILE EXISTS?
NO
S13
YES
S12
SET INVALID FLAG FOR PROPERTY ENTRY 201
WRITE INVALID DATA
S14
END OPERATION
S15

FIG.8

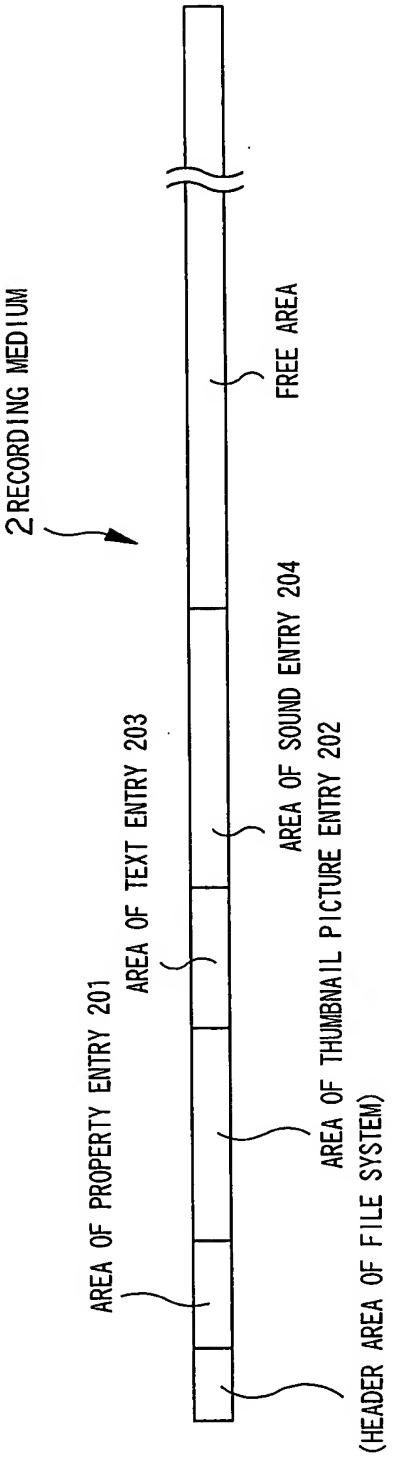
2 RECORDING MEDIUM
FREE AREA
AREA OF SOUND ENTRY 204
AREA OF TEXT ENTRY 203
AREA OF THUMBNAIL PICTURE ENTRY 202
AREA OF PROPERTY ENTRY 201
(HEADER AREA OF FILE SYSTEM)

FIG.9

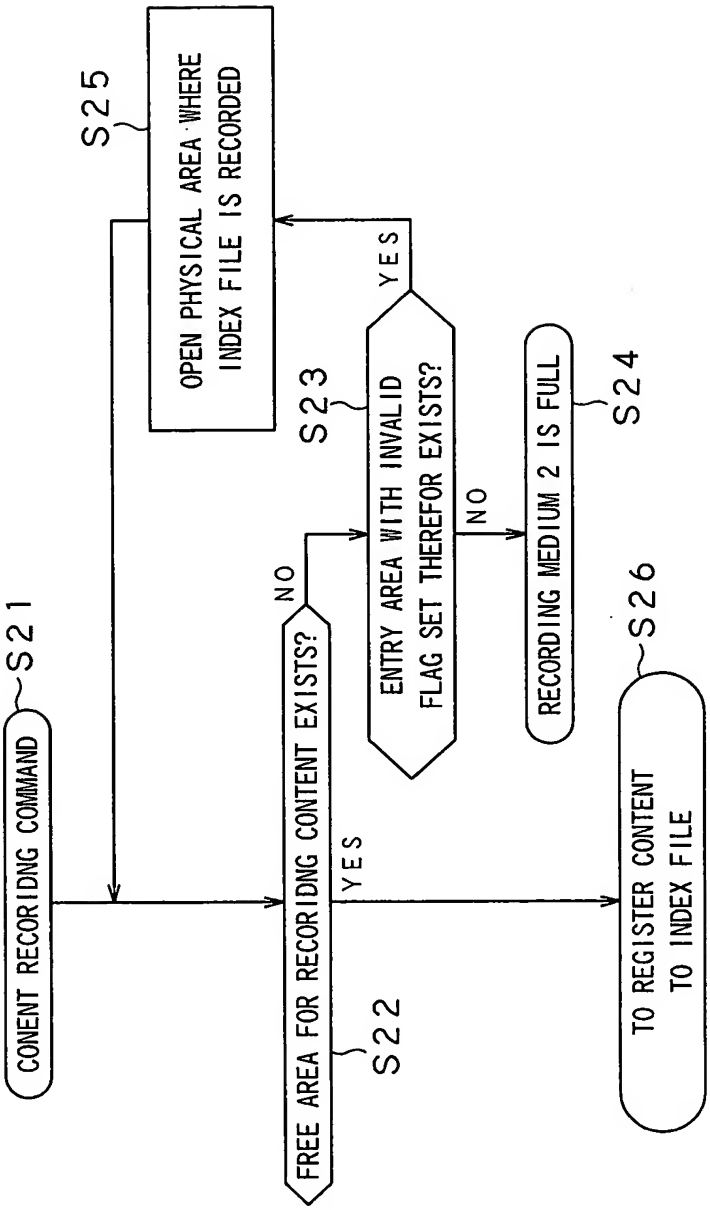
CONENT RECORIDNG COMMAND
S21
FREE AREA FOR RECORIDNG CONTENT EXISTS?
S22
NO
YES
ENTRY AREA WITH INVALID FLAG SET THEREFOR EXISTS?
S23
NO
YES
RECORDING MEDIUM 2 IS FULL
S24
OPEN PHYSICAL AREA WHERE INDEX FILE IS RECORDED
S25
TO REGISTER CONTENT TO INDEX FILE
S26

FIG.10

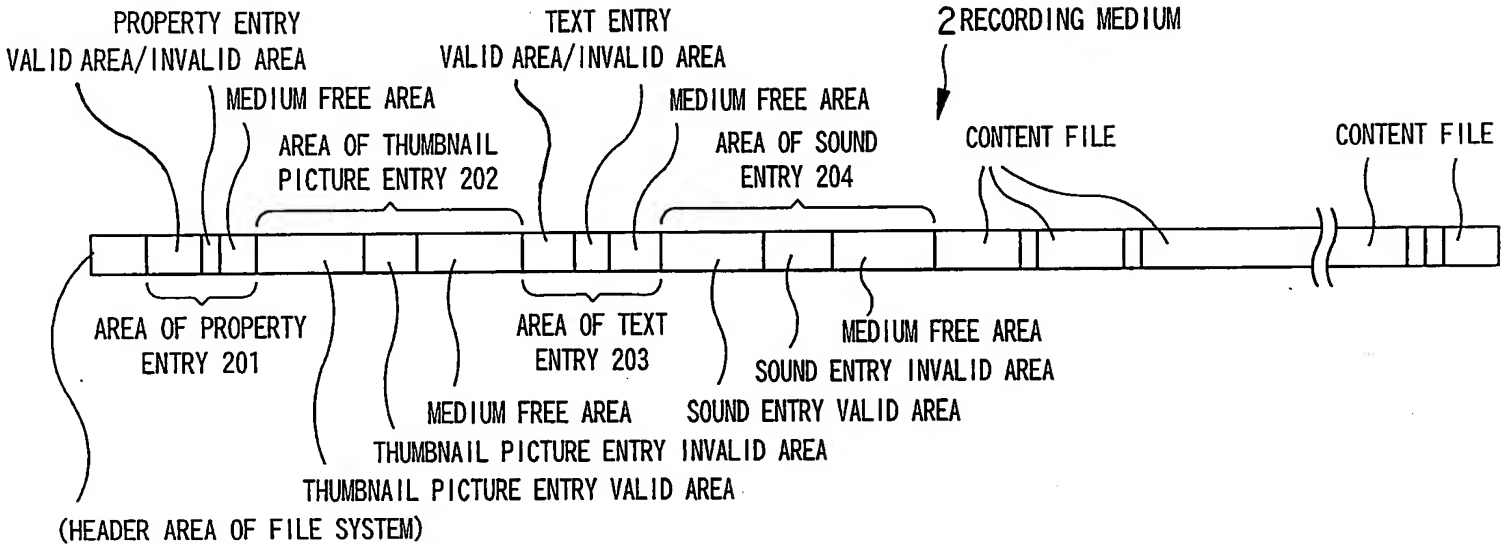

FIG.11A

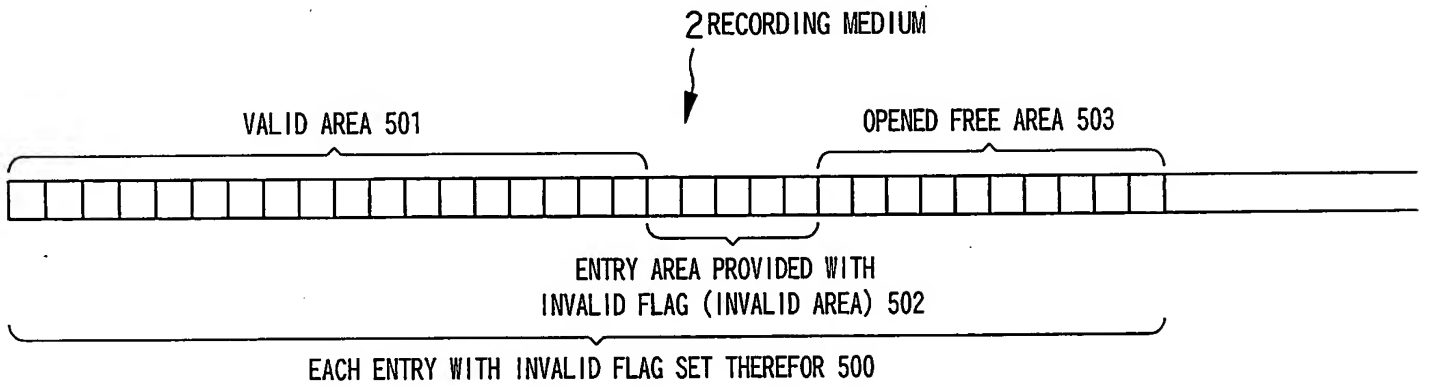

FIG.11B

OBLON, SPIVAK, ET AL
DOCKET #: 248138US6
INV: Haruo YOSHIDA, et al.
SHEET 10 OF 13

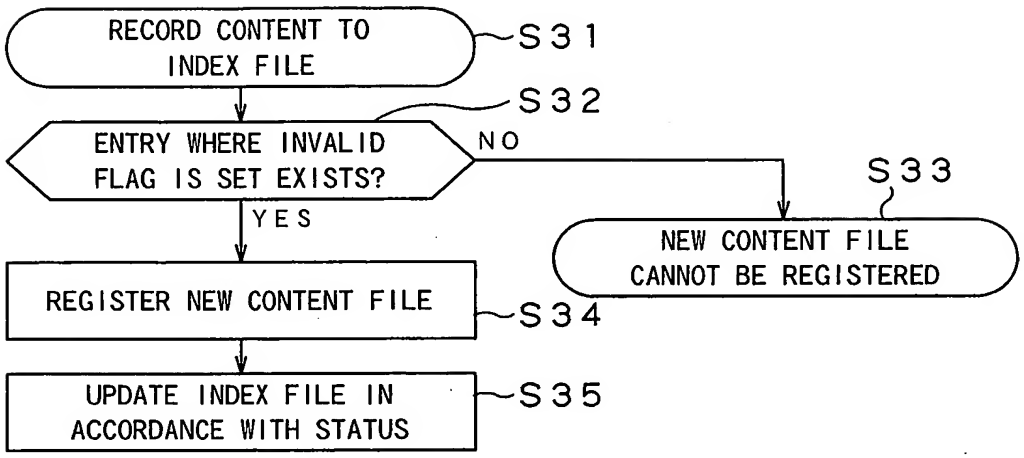
RECORD CONTENT TO INDEX FILE
S31
S32
ENTRY WHERE INVALID FLAG IS SET EXISTS?
NO
S33
YES
NEW CONTENT FILE CANNOT BE REGISTERED
REGISTER NEW CONTENT FILE
S34
UPDATE INDEX FILE IN ACCORDANCE WITH STATUS
S35

FIG.12

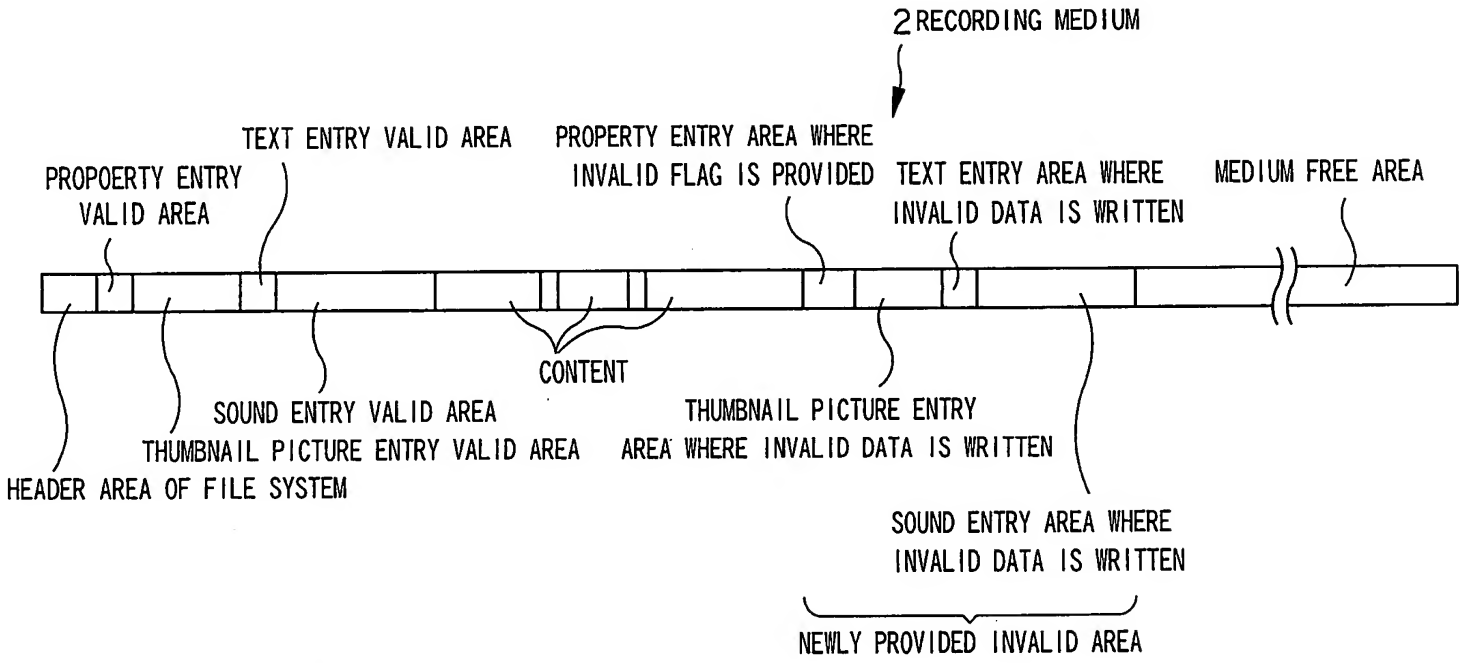

FIG.13

OBLON, SPIVAK, ET AL
DOCKET #: 248138US6
INV: Haruo YOSHIDA, et al.
SHEET 12 OF 13

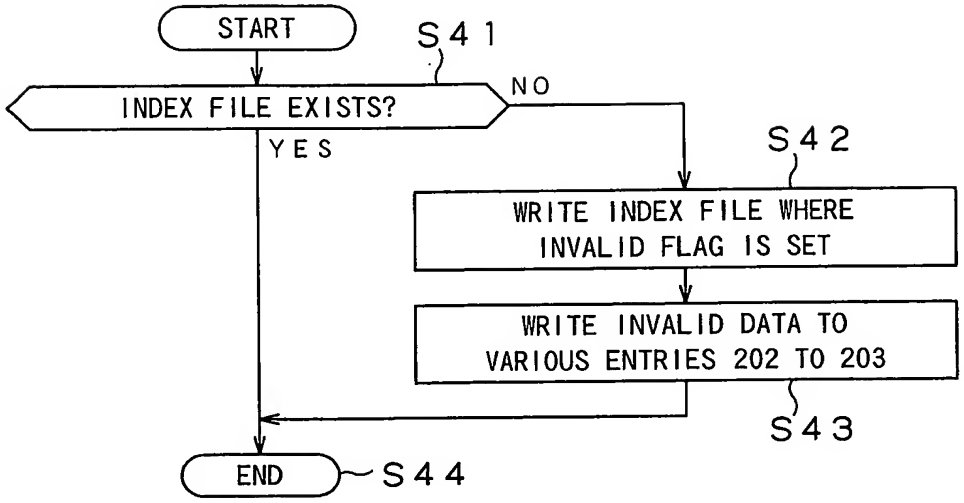
START
S41
INDEX FILE EXISTS?
NO
YES
S42
WRITE INDEX FILE WHERE INVALID FLAG IS SET
WRITE INVALID DATA TO VARIOUS ENTRIES 202 TO 203
S43
END
S44

FIG.14

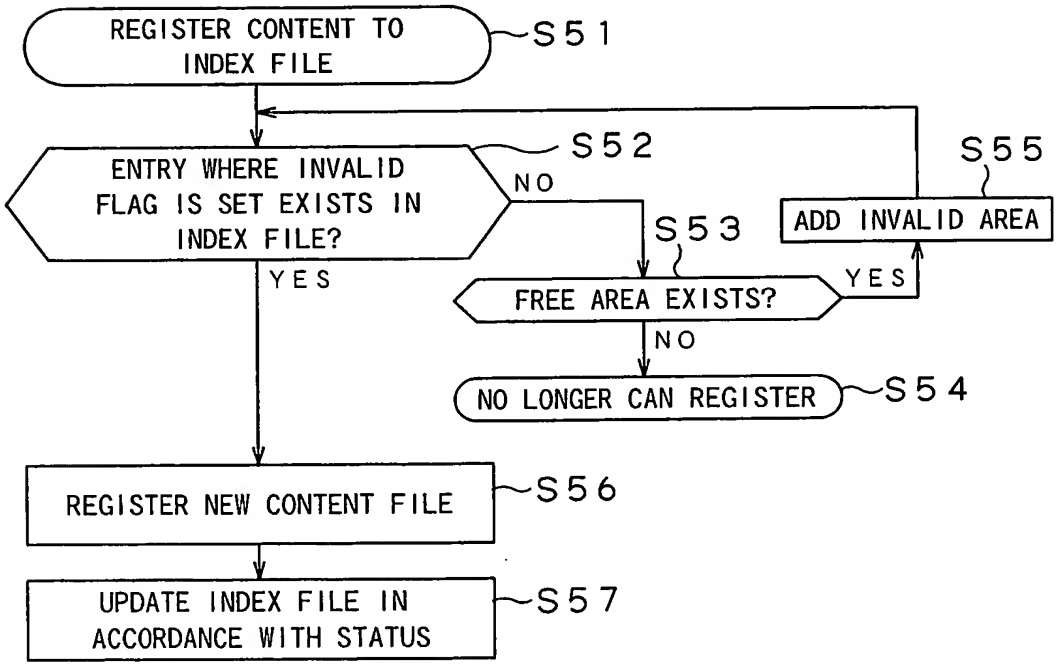
REGISTER CONTENT TO INDEX FILE
S51
ENTRY WHERE INVALID FLAG IS SET EXISTS IN INDEX FILE?
S52
NO
YES
S53
FREE AREA EXISTS?
YES
NO
S55
ADD INVALID AREA
NO LONGER CAN REGISTER
S54
REGISTER NEW CONTENT FILE
S56
UPDATE INDEX FILE IN ACCORDANCE WITH STATUS
S57

FIG.15